

# HW-44

## EPA Validated Data Summary Report

### Dimock Residential Sampling

Sample Date: 2/9/2012

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW44	1-Butanol	10,000.00 U ug/L	1,500.00 ug/L				
HW44	1-Propanol	10,000.00 U ug/L					
HW44	2-Butanol	10,000.00 U ug/L					
HW44	Ethanol	10,000.00 U ug/L					
HW44	Methanol	10,000.00 U ug/L	7,800.00 ug/L				
HW44	Anionic Surfactants	0.01 U mg/L					
HW44	Heterotrophic Plate Count	R cfu/1mL					
HW44	Total Coliform Bacteria	1.00 U cfu/100mL	0.00 cfu/100mL	5.00 %*			
HW44	Ethane	1.20 U ug/L					
HW44	Ethene	1.10 U ug/L					
HW44	Methane	1.20 U ug/L	28,000.00 ug/L				
HW44	2-Butoxyethanol	5.00 U ug/L					
HW44	2-Methoxyethanol	R ug/L	78.00 ug/L				
HW44	2-Methoxyethanol	10.00 U ug/L	78.00 ug/L				
HW44	Diethylene Glycol	25.00 U ug/L	8,000.00 ug/L				
HW44	Ethylene Glycol	10.00 U mg/L	31,000.00 ug/L				
HW44	Tetraethylene glycol	25.00 U ug/L	8,000.00 ug/L				
HW44	Triethylene glycol	25.00 U ug/L	8,000.00 ug/L				
HW44	Bromide	0.50 U mg/L					
HW44	Chloride	1.54 mg/L			250.00 mg/L		250.00 mg/L
HW44	Fluoride	0.11 mg/L	0.62 mg/L	4.00 mg/L	2.00 mg/L	2.00 mg/L	
HW44	Sulfate	3.12 mg/L			250.00 mg/L		250.00 mg/L
HW44	Mercury	0.20 U ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	
HW44-F	Mercury	0.20 U ug/L	4.30 ug/L	2.00 ug/L		2.00 ug/L	

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Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW44	Aluminum	30.00	U ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW44-F	Aluminum	30.00	U ug/L	16,000.00 ug/L		200.00 ug/L		200.00 ug/L
HW44	Antimony	2.00	U ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW44-F	Antimony	2.00	U ug/L	6.00 ug/L	6.00 ug/L		6.00 ug/L	
HW44	Arsenic	1.00	U ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW44-F	Arsenic	1.00	U ug/L	4.50 ug/L	10.00 ug/L		10.00 ug/L	
HW44	Barium	18.70	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW44-F	Barium	18.90	ug/L	2,900.00 ug/L	2,000.00 ug/L		2,000.00 ug/L	
HW44	Beryllium	1.00	U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW44-F	Beryllium	1.00	U ug/L	16.00 ug/L	4.00 ug/L		4.00 ug/L	
HW44	Boron	50.00	U ug/L	3,100.00 ug/L				
HW44-F	Boron	50.00	U ug/L	3,100.00 ug/L				
HW44	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW44-F	Cadmium	1.00	U ug/L	6.90 ug/L	5.00 ug/L		5.00 ug/L	
HW44	Calcium	21,800.00	ug/L					
HW44-F	Calcium	21,600.00	ug/L					
HW44	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW44-F	Chromium	2.00	U ug/L	3.10 ug/L	100.00 ug/L		100.00 ug/L	
HW44	Cobalt	1.00	U ug/L	4.70 ug/L				
HW44-F	Cobalt	1.00	U ug/L	4.70 ug/L				
HW44	Copper	2.00	U ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW44-F	Copper	2.00	U ug/L	620.00 ug/L	1,300.00 ug/L**	1,000.00 ug/L	1,000.00 ug/L***	
HW44	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW44-F	Iron	100.00	U ug/L	11,000.00 ug/L		300.00 ug/L		300.00 ug/L
HW44	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW44-F	Lead	1.00	U ug/L	15.00 ug/L	15.00 ug/L**		5.00 ug/L***	
HW44	Lithium	200.00	U ug/L	31.00 ug/L				
HW44-F	Lithium	200.00	U ug/L	31.00 ug/L				
HW44	Magnesium	5,060.00	ug/L					

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Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW44-F	Magnesium	5,040.00	ug/L					
HW44	Manganese	11.80	ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW44-F	Manganese	1.00 U	ug/L	320.00 ug/L		50.00 ug/L		50.00 ug/L
HW44	Nickel	1.00 U	ug/L	300.00 ug/L				
HW44-F	Nickel	1.00 U	ug/L	300.00 ug/L				
HW44	Potassium	2,000.00 U	ug/L					
HW44-F	Potassium	2,000.00 U	ug/L					
HW44	Selenium	5.00 U	ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW44-F	Selenium	5.00 U	ug/L	78.00 ug/L	50.00 ug/L		50.00 ug/L	
HW44	Silver	1.00 U	ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW44-F	Silver	1.00 U	ug/L	71.00 ug/L		100.00 ug/L		100.00 ug/L
HW44	Sodium	5,320.00	ug/L	20,000.00 ug/L				
HW44-F	Sodium	5,180.00	ug/L	20,000.00 ug/L				
HW44	Strontium	200.00 U	ug/L	9,300.00 ug/L				
HW44-F	Strontium	200.00 U	ug/L	9,300.00 ug/L				
HW44	Thallium	1.00 U	ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW44-F	Thallium	1.00 U	ug/L	0.16 ug/L	2.00 ug/L		2.00 ug/L	
HW44	Tin	200.00 U	ug/L	9,300.00 ug/L				
HW44-F	Tin	200.00 U	ug/L	9,300.00 ug/L				
HW44	Titanium	200.00 U	ug/L					
HW44-F	Titanium	200.00 U	ug/L					
HW44	Uranium	1.00 U	ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW44-F	Uranium	1.00 U	ug/L	47.00 ug/L	30.00 ug/L		30.00 ug/L	
HW44	Vanadium	5.00 U	ug/L	78.00 ug/L				
HW44-F	Vanadium	5.00 U	ug/L	78.00 ug/L				
HW44	Zinc	5.00	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW44-F	Zinc	3.20	ug/L	4,700.00 ug/L		5,000.00 ug/L		5,000.00 ug/L
HW44	Oil and Grease	5.40 UJ	mg/L					
HW44	Total Dissolved Solids	86.00	mg/L			500.00 mg/L		500.00 mg/L

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Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW44	Total Suspended Solids	10.00	U mg/L					
HW44	1-Methylnaphthalene	4.76	U ug/L	97.00 ug/L				
HW44	Acenaphthene	4.76	U ug/L	400.00 ug/L				
HW44	Acenaphthylene	4.76	U ug/L					
HW44	Acetophenone	4.76	U ug/L	1,500.00 ug/L				
HW44	Anthracene	4.76	U ug/L	1,300.00 ug/L				
HW44	Atrazine	4.76	U ug/L	26.00 ug/L	3.00 ug/L		3.00 ug/L	
HW44	Benzo(a)anthracene	4.76	U ug/L	2.90 ug/L				
HW44	Benzo(a)pyrene	4.76	U ug/L	0.29 ug/L	0.20 ug/L		0.20 ug/L	
HW44	Biphenyl	4.76	U ug/L					
HW44	Bromophenyl-4 Phenyl Ether	4.76	U ug/L					
HW44	Butylbenzyl phthalate	4.76	U ug/L	1,400.00 ug/L				
HW44	Caprolactam	4.76	U ug/L	7,700.00 ug/L				
HW44	Carbazole	4.76	U ug/L					
HW44	Chlorobenzenamine-4	4.76	UJ ug/L	3.20 ug/L				
HW44	Chloronaphthalene-2	4.76	U ug/L	550.00 ug/L				
HW44	Chlorophenol-2	4.76	U ug/L	71.00 ug/L				
HW44	Chlorophenyl-4 phenyl ether	4.76	U ug/L					
HW44	Chrysene	4.76	U ug/L	290.00 ug/L				
HW44	Cresol, parachloro meta-	4.76	U ug/L					
HW44	Cresol-4,6-dinitro-ortho	9.52	UJ ug/L					
HW44	Cresol-o	4.76	U ug/L	720.00 ug/L				
HW44	Cresol-p	4.76	U ug/L	72.00 ug/L				
HW44	Dibenz(a,h)anthracene	4.76	U ug/L	0.29 ug/L				
HW44	Dibenzofuran	4.76	U ug/L					
HW44	Dichlorobenzidine-3,3'	R	ug/L	11.00 ug/L				
HW44	Dichlorophenol-2,4	4.76	U ug/L	35.00 ug/L				
HW44	Dimethylphenol, 2,4-	4.76	U ug/L	270.00 ug/L				
HW44	Dinitrophenol-2,4	R	ug/L	30.00 ug/L				

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Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW44	Dinitrotoluene-2,4	4.76 U ug/L					
HW44	Dinitrotoluene-2,6	4.76 U ug/L					
HW44	Ether, bis(2-chloroethyl)	4.76 U ug/L	1.20 ug/L				
HW44	Ether-bis(2-chloroisopropyl)	4.76 U ug/L					
HW44	Fluoranthene	4.76 U ug/L	630.00 ug/L				
HW44	Fluoranthene benzo(k)	4.76 U ug/L	29.00 ug/L				
HW44	Fluoranthene-benzo(b)	4.76 U ug/L	5.60 ug/L				
HW44	Fluorene	4.76 U ug/L	220.00 ug/L				
HW44	Hexachlorobenzene	4.76 U ug/L	4.20 ug/L	1.00 ug/L		1.00 ug/L	
HW44	Hexachlorobutadiene	0.50 U ug/L	26.00 ug/L				
HW44	Hexachlorobutadiene	4.76 U ug/L	26.00 ug/L				
HW44	Hexachlorocyclopentadiene	4.76 U ug/L	22.00 ug/L	50.00 ug/L		50.00 ug/L	
HW44	Hexachloroethane	4.76 U ug/L	5.10 ug/L				
HW44	Isophorone	4.76 U ug/L	6,700.00 ug/L				
HW44	Methane, bis(2-chloroethoxy)	4.76 U ug/L	47.00 ug/L				
HW44	Methylnaphthalene-2	4.76 U ug/L	27.00 ug/L				
HW44	Naphthalene	0.50 U ug/L	14.00 ug/L				
HW44	Naphthalene	4.76 U ug/L	14.00 ug/L				
HW44	Nitroaniline, ortho	4.76 U ug/L	150.00 ug/L				
HW44	Nitroaniline-3	4.76 U ug/L					
HW44	Nitrobenzenamine-4	4.76 U ug/L	61.00 ug/L				
HW44	Nitrobenzene	4.76 U ug/L	12.00 ug/L				
HW44	Nitrophenol-2	4.76 U ug/L					
HW44	Nitrophenol-4	9.52 U ug/L					
HW44	Nitrosodimethylamine-n	4.76 U ug/L	0.04 ug/L				
HW44	Nitrosodiphenylamine-n	4.76 U ug/L	1,000.00 ug/L				
HW44	Pentachlorophenol	4.76 U ug/L	17.00 ug/L	1.00 ug/L		1.00 ug/L	
HW44	Perylene-benzo(ghi)	4.76 U ug/L					
HW44	Phenanthrene	4.76 U ug/L					

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Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW44	Phenol	4.76	U ug/L	4,500.00 ug/L				
HW44	Phthalate, bis(2-ethylhexyl) (DEHP)	4.76	U ug/L	7.10 ug/L	6.00 ug/L		6.00 ug/L	
HW44	Phthalate, Dimethyl	4.76	U ug/L	1,400.00 ug/L				
HW44	Phthalate, di-n-butyl-	4.76	U ug/L	670.00 ug/L				
HW44	Phthalate, di-n-octyl	4.76	U ug/L					
HW44	Phthalate-diethyl	4.76	U ug/L	11,000.00 ug/L				
HW44	Propylamine,n-nitroso di-n-	4.76	U ug/L	0.93 ug/L				
HW44	Pyrene	4.76	U ug/L	87.00 ug/L				
HW44	Pyrene-indeno(1,2,3-cd)	4.76	U ug/L	3.00 ug/L				
HW44	Tetrachlorobenzene, 1,2,4,5-	4.76	U ug/L	1.20 ug/L				
HW44	Tetrachlorophenol, 2,3,4,6-	4.76	U ug/L	170.00 ug/L				
HW44	Trichlorophenol-2,4,5	4.76	U ug/L	890.00 ug/L				
HW44	Trichlorophenol-2,4,6	4.76	U ug/L	9.04 ug/L				
HW44	TPH - Diesel Range Organics	250.00	U ug/L					
HW44	TPH - Gasoline Range Organics	50.00	U ug/L					
HW44	TPH - Oil Range Organics	1,000.00	U ug/L					
HW44	1,2-Dibromo-3-chloropropane (DBCP)	0.50	U ug/L	0.03 ug/L	0.20 ug/L		0.20 ug/L	
HW44	4-Methyl-2-pentanone	2.00	U ug/L	1,000.00 ug/L				
HW44	Acetone	2.00	U ug/L					
HW44	Benzene	0.50	U ug/L		5.00 ug/L		5.00 ug/L	
HW44	Bromobenzene	0.50	U ug/L					
HW44	Bromoform	0.50	U ug/L		80.00 ug/L		80.00 ug/L	
HW44	Butylbenzene	0.50	U ug/L					
HW44	Butylbenzene, sec-	0.50	U ug/L					
HW44	Butylbenzene, tert-	0.50	U ug/L					
HW44	Carbon disulfide	0.50	U ug/L					
HW44	Carbon Tetrachloride	0.50	U ug/L		5.00 ug/L		5.00 ug/L	
HW44	Chlorobenzene	0.50	U ug/L		100.00 ug/L			
HW44	Chlorobromomethane	0.50	U ug/L					

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Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW44	Chloroethane	0.50 U ug/L					
HW44	Chloroform	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW44	Chlorotoluene	0.50 U ug/L	180.00 ug/L				
HW44	Chlorotoluene-p	0.50 U ug/L	190.00 ug/L				
HW44	Cyclohexane	0.50 U ug/L					
HW44	Dibromochloromethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW44	Dibromoethane-1,2	0.50 U ug/L	0.65 ug/L	0.05 ug/L		0.05 ug/L	
HW44	Dibromomethane	0.50 U ug/L					
HW44	Dichlorobenzene-1,2	0.50 U ug/L	280.00 ug/L	600.00 ug/L		600.00 ug/L	
HW44	Dichlorobenzene-1,3	0.50 U ug/L					
HW44	Dichlorobenzene-1,4	0.50 U ug/L	42.00 ug/L	75.00 ug/L		75.00 ug/L	
HW44	Dichlorobromomethane	0.50 U ug/L		80.00 ug/L		80.00 ug/L	
HW44	Dichlorodifluoromethane	0.50 U ug/L					
HW44	Dichloroethane-1,1	0.50 U ug/L	240.00 ug/L				
HW44	Dichloroethane-1,2	0.50 U ug/L	15.00 ug/L	5.00 ug/L		5.00 ug/L	
HW44	Dichloroethene-1,2 trans	0.50 U ug/L		100.00 ug/L		100.00 ug/L	
HW44	Dichloroethylene-1,1	0.50 U ug/L		7.00 ug/L		7.00 ug/L	
HW44	Dichloroethylene-1,2 cis	0.50 U ug/L		70.00 ug/L		70.00 ug/L	
HW44	Dichloropropane, 1,2-	0.50 U ug/L	38.00 ug/L	5.00 ug/L		5.00 ug/L	
HW44	Dichloropropane, 1,3-	0.50 U ug/L	290.00 ug/L				
HW44	Dichloropropane, 2,2-	0.50 U ug/L					
HW44	Dichloropropene, 1,1-	0.50 U ug/L					
HW44	Dichloropropene, 1,3 cis-	0.50 U ug/L					
HW44	Dichloropropene, 1,3 trans-	0.50 U ug/L					
HW44	Ethylbenzene	0.50 U ug/L		700.00 ug/L		700.00 ug/L	
HW44	Freon 113	0.50 U ug/L					
HW44	Hexanone, 2-	2.00 U ug/L	34.00 ug/L				
HW44	Isopropylbenzene	0.50 U ug/L					
HW44	Isopropylbenzene-4,methyl-1	0.50 U ug/L					

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Sample Number	Analyte	Result		Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
HW44	m,p-Xylene	1.00	U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW44	Methyl acetate	0.50	U ug/L					
HW44	Methyl bromide	0.50	UJ ug/L					
HW44	Methyl chloride	0.50	U ug/L					
HW44	Methyl cyclohexane	0.50	U ug/L					
HW44	Methyl ethyl ketone	2.00	U ug/L	4,900.00 ug/L				
HW44	Methyl tertiary butyl ether (MTBE)	0.50	U ug/L					
HW44	Methylene chloride	0.50	U ug/L		5.00 ug/L		5.00 ug/L	
HW44	Propylbenzene-n	0.50	U ug/L					
HW44	Styrene	1.00	U ug/L		100.00 ug/L		100.00 ug/L	
HW44	Tetrachloroethane, 1,1,1,2-	0.50	U ug/L	50.00 ug/L				
HW44	Tetrachloroethane, 1,1,2,2-	0.50	U ug/L	6.60 ug/L				
HW44	Tetrachloroethylene	0.50	U ug/L		5.00 ug/L		5.00 ug/L	
HW44	Toluene	0.50	U ug/L		1,000.00 ug/L		1,000.00 ug/L	
HW44	Trichlorobenzene-1,2,3	0.50	U ug/L	5.20 ug/L				
HW44	Trichlorobenzene-1,2,4	0.50	U ug/L	5.20 ug/L	70.00 ug/L		70.00 ug/L	
HW44	Trichloroethane-1,1,1	0.50	U ug/L	7,500.00 ug/L	200.00 ug/L		200.00 ug/L	
HW44	Trichloroethane-1,1,2	0.50	U ug/L	0.41 ug/L	5.00 ug/L		5.00 ug/L	
HW44	Trichloroethylene	0.50	U ug/L		5.00 ug/L		5.00 ug/L	
HW44	Trichlorofluoromethane	0.50	U ug/L					
HW44	Trichloropropane-1,2,3	0.50	U ug/L	0.07 ug/L				
HW44	Trimethylbenzene-1,2,4	0.50	U ug/L	15.00 ug/L				
HW44	Trimethylbenzene-1,3,5	0.50	U ug/L	87.00 ug/L				
HW44	Vinyl acetate	0.50	U ug/L					
HW44	Vinyl chloride	0.50	U ug/L		2.00 ug/L		2.00 ug/L	
HW44	Xylene-o	1.00	U ug/L		10,000.00 ug/L		10,000.00 ug/L	
HW44	Nitrogen, Nitrite + Nitrate	0.46	mg/L		10.00 mg/L		10.00 mg/L	
HW44	Total Nitrogen	5.14	J mg/L					
HW44	Total Phosphorus as P	0.05	U mg/L					

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Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
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Sample Number – Code that is used to identify the particular sample. See additional information below:

HW## – Identifies the sample location and indicates that it was collected at well head or closest point to the well head.

F – Indicates that the sample was filtered following collection. The purpose of filtering the sample is to remove any particulates in order to find what metals are actually dissolved in the water sample.

Z – Identifies a duplicate sample. Duplicate samples are collected for every ten samples collected to test the reproducibility of sampling and analytical procedures.

P – Indicates that the sample was collected at the kitchen tap. In some cases this may be following any treatment that the residence may have.

A/B – Designates which residence the sample was collected for sample locations with multiple residences using the same water source (may be a well or a spring).

RO – Indicated that the sample was collected from a residence containing a reverse osmosis treatment system.

N – Designates that the sample was collected from the new well for locations with multiple wells.

Analyte – General term for a substance in the sample. The lab does testing to find specific analytes, or substance in the water sample. The report lists each analyte that the lab tested for and what amounts were found.

TPH - Total Petroleum Hydrocarbons

Result and Units – identifies the actual result for the particular analyte and the measurement used for the particular type of sample. The results may include the following units for the various water sample analyses:

µg /L – Micrograms per liter (abbreviated as µg /L) measurements of the mass of the substance per liter of water. This measurement is commonly known as parts per billion or ppb. Drinking water results are usually reported in µg /L.

mg/L – Milligrams per liter (abbreviated as mg/L) measurements of the mass of the substance per liter of water. This measurement is commonly known as parts per million or ppm.

cfu/100 mL – Total Coliform Bacteria results are reported as colony forming units (cfu) per milliliters of water. Coliform bacteria is not a health threat in itself; it is used to indicate whether other potentially harmful bacteria may be present.

cfu/1mL – Heterotrophic Plate Count Bacteria (HPC) are reported as colony forming units (cfu) per milliliter of water. HPC has no health effects; it is an analytic method used to measure the variety of bacteria that are common in water. The lower the concentration of bacteria in drinking water, the better maintained the water system is.

Absent or Present – Fecal Coliform Bacteria are reported as either being Absent or Present. Fecal Coliform Bacteria are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Disease-causing microbes (pathogens) in these wastes can cause diarrhea, cramps, nausea, headaches,

Sample Number	Analyte	Result	Trigger Levels	EPA Primary MCLs	EPA Secondary MCLs	DEP Primary MCLs	DEP Secondary MCLs
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Trigger Level – established for this project, the trigger levels are based on risk-based screening levels and/or standards for public water supplies. A yellow highlighted result represents an analytical result greater than the established trigger level. Results exceeding a trigger level are referred to an EPA toxicologist for further review.

EPA Primary MCLs – the primary maximum contaminant levels (MCLs) are legally enforceable standards established under the Safe Drinking Water Act to protect public health by limiting the levels of contaminants in public drinking water systems. The MCL is the amount of an analyte (substance) that can be present in a water sample that the government considers acceptable to drink. EPA considers the MCLs when evaluating results from residential drinking water wells.

EPA Secondary MCLs - secondary MCLs are non-enforceable standards regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary standards to public water systems, but does not require systems to comply. However, states may choose to adopt them as enforceable standards.

DEP MCLs (Primary and Secondary) – Chapter 109, Pennsylvania Safe Drinking Water Regulations, defines MCL as the maximum permissible level of a contaminant in water which is delivered to a user of a public water system, and includes the primary and secondary MCLs established under the Federal Safe Drinking Water Act, and MCLs adopted under the act.

- \* No more than 5.0% samples total coliform-positive in a month. (For water systems that collect fewer than 40 routine samples per month, no more than one sample can be total coliform-positive per month.) Every sample that has total coliform must be analyzed for either fecal coliforms or E. coli if two consecutive TC-positive samples, and one is also positive for E.coli fecal coliforms, system has an acute MCL violation.
- \*\* EPA has not established an MCL for lead or copper. Lead and copper are regulated by a Treatment Technique that requires public drinking water systems to control the corrosiveness of their water. If more than 10% of tap water samples exceed the action level, water system must take additional steps. For lead, the action level is 15 ug/L, and for copper is 1,300 ug/L.
- \*\*\* The DEP Primary MCLs for lead (5 ug/L) and copper (1,000 ug/L) are applicable only to bottled, vended, retail and bulk water hauling systems, otherwise the DEP uses the federal action levels for lead (15 ug/L), and for copper (1,300 ug/L).

Validation Result Qualifiers - EPA performs a quality check on the lab results. After this quality check, EPA may mark the measurement of certain analytes with a qualifier to give additional information about the measurement. This information can apply to 1) how certain EPA is that the lab detected the analyte and 2) how certain EPA is of the measurement of the analyte once detected. If there is no qualifier by the result, the detection and measurement of the analyte are certain

U – Indicates that the analyte was not detected. If there is a number next to the U, this number is the amount of analyte that would have to be present to be detected by the lab given the particular method and/or instrumentation.

J – This means that the analyte was detected, but the value of the result is an estimate.

UJ - The U before the J means that the analyte was not detected in the sample, but this result may be inaccurate. Some analyte may be present.

R – Indicates that the data has been rejected. For glycol analyses, data with detected concentrations above the Method Detection Limit (MDL) and less than the Reporting Limit (RL) were rejected due to the laboratory not using a second column and/or gas chromatography with mass spectrometry to confirm the identity of the compound listed. For Heterotrophic Plate Count analysis, data were rejected if the laboratory did not run a method blank (i.e. sterility control) for each series of samples plated to determine whether the test samples could have been contaminated during analysis. For semivolatile organic compound analysis, non-detect data have been rejected due to low recoveries of required method quality control checks.

MDL – Is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the concentration of the substance is greater than zero.

RL – Is the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions, typically set at the lowest standard in the calibration curve